AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (original): An organic polymer light-emitting element material having a gold complex structure as a part of the side chain or crosslinking group.
- 2. (original): The organic polymer light-emitting element material as claimed in claim 1, wherein the molecular weight of the organic polymer is from 1,000 to 1,000,000.
- 3. (currently amended): The organic polymer light-emitting element material as claimed in claim 1-or 2, which is obtained by polymerizing a composition containing a polymerizable gold complex where at least one ligand has a polymerizable functional group as the substituent.
- 4. (original): The organic polymer light-emitting element material as claimed in claim 1, wherein the gold complex structure has an organic phosphine compound as at least one ligand.
- 5. (original): The organic polymer light-emitting element material as claimed in claim 3, wherein at least one ligand of the polymerizable gold complex is an organic phosphine compound.

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- 6. (original): The organic polymer light-emitting element material as claimed in claim 5, wherein at least one organic phosphine compound as the ligand has a polymerizable functional group as the substituent.
- 7. (currently amended): The organic polymer light-emitting element material as claimed in <u>claim</u>

 4 any one of claims 4 to 6, wherein the organic phosphine compound is represented by formula

 (1):

$$P(R^1)(R^2)(R^3)$$
 (1)

wherein R¹ to R³ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an alkoxy group having 1 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent.

8. (currently amended): The organic polymer light-emitting element material as claimed in <u>claim</u>

4 any one of claims 4 to 6, wherein the organic phosphine compound is represented by formula

(2):

$$(R^4)(R^5)P-Z^1-P(R^6)(R^7)$$
 (2)

wherein R⁴ to R⁷ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an alkoxy group having 1 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent, and

Z¹ represents an organic group which crosslinks two phosphorus atoms, such as alkylene group having 1 to 20 carbon atoms which may have a substituent, alkylene group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, or arylene group having 6 to 20 carbon atoms which may have a substituent.

9. (currently amended): The organic polymer light-emitting element material as claimed in <u>claim</u>

<u>3any one of claims 3 to 6</u>, wherein the polymerizable gold complex has a structure represented by formula (3):

wherein R⁴ to R⁷ and Z1 have the same meanings as in claim 8, R⁸ to R¹¹ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a

substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an alkoxy group having 1 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, a heteroaryl group having 3 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent,

Z² represents an organic group which crosslinks two phosphorus atoms, such as alkylene group having 1 to 20 carbon atoms which may have a substituent, alkylene group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, or arylene group having 6 to 20 carbon atoms which may have a substituent, and

A represents a monovalent anion,

provided that at least one of R^4 to R^{11} , Z^1 and Z^2 has a polymerizable functional group.

10. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable gold complex has a structure represented by formula (4):

$$(R^4) (R^5) P \longrightarrow Z^1 \longrightarrow P(R^6) (R^7)$$

$$\begin{vmatrix} Au & Au \\ & &$$

wherein R^4 to R^7 and Z^1 have the same meanings as in 8, and Hal represents a halogen atom, provided that at least one of R^4 to R^7 and Z^1 has a polymerizable functional group.

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- 11. (currently amended): The organic polymer light-emitting element material as claimed in claim 1 any one of claims 1 to 4, wherein the gold complex structure has at least one alkynyl ligand.
- 12. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable gold complex has a structure represented by formula (5):

$$R^{12} - \left(C = C - Au - P(R^{13}) (R^{14}) (R^{15})\right)$$
 (5)

wherein R¹² represents a hydrogen atom, a cyano group, a silyl group having 3 to 20 carbon atoms, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, a heteroaryl group having 3 to 15 carbon atoms which may have a substituent, an acyl group having 1 to 15 carbon atoms, a carboxyl group, or an alkoxy carbonyl group having 2 to 15 carbon atoms,

R¹³ to R¹⁵ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an alkoxy group having 1 to 15 carbon atoms which may

have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, a heteroaryl group having 3 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent, and

n represents an integer of 1 to 5, provided that at least one of R¹² to R¹⁵ has a polymerizable functional group.

13. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable gold complex has a structure represented by formula (6):

wherein R¹⁶ to R¹⁹ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an alkoxy group having 1 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, a heteroaryl group having 3 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent,

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R²⁰ to R²¹ each independently represents a hydrogen atom, a cyano group, a silyl group having 3 to 20 carbon atoms, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, a heteroaryl group having 3 to 15 carbon atoms which may have a substituent, an acyl group having 1 to 15 carbon atoms, a carboxyl group, or an alkoxy carbonyl group having 2 to 15 carbon atoms, R²⁰ and R²¹ may be linked with each other via a crosslinking group,

Z³ represents an organic group which crosslinks two phosphorus atoms, such as alkylene group having 1 to 20 carbon atoms which may have a substituent, alkylene group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, or arylene group having 6 to 20 carbon atoms which may have a substituent, and

n represents an integer of 1 to 5,

provided that at least one of R^{16} to R^{21} and Z^3 has a polymerizable functional group.

14. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3, 5 and 6, wherein the polymerizable gold complex has a structure represented by formula (7):

$$L^{1}-Au-C = C \xrightarrow{p} Au-L^{2}$$
 (7)

wherein L^1 and L^2 each represents a monodentate or bidentate ligand, at least one of L^1 and L^2 is the organic phosphine compound described in claim 7-or-8, and n represents an integer of 1 to 5.

- 15. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable gold complex has at least one thiolato ligand.
- 16. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable gold complex has a structure represented by formula (8):

$$(R^{22}) (R^{23}) P \longrightarrow Z^4 \longrightarrow P(R^{24}) (R^{25})$$

$$Au \qquad Au \qquad (8)$$

$$SR^{26} \qquad SR^{27}$$

wherein R²² to R²⁵ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an alkoxy group having 1 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, a heteroaryl group having 3 to 15 carbon atoms which may have a substituent or an aryloxy group having 6 to 15 carbon atoms which may have a substituent,

R²⁶ and R²⁷ each independently represents a hydrogen atom, an alkyl group having 1 to 15 carbon atoms which may have a substituent, an alkyl group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, an alkenyl group having 2 to 15 carbon atoms which may have a substituent, an aryl group having 6 to 15 carbon atoms which may have a substituent, or a heteroaryl group having 3 to 15 carbon atoms which may have a substituent, and R²⁶ and R²⁷ may be linked with each other via a crosslinking group,

Z⁴ represents an organic group which crosslinks two phosphorus atoms, such as alkylene group having 1 to 20 carbon atoms which may have a substituent, alkylene group having 3 to 15 carbon atoms which has a cyclic structure and which may have a substituent, or arylene group having 6 to 20 carbon atoms which may have a substituent,

provided that at least one of R²² to R²⁷ and Z⁴ has a polymerizable functional group.

17. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable functional group has radical polymerizability.

18. (currently amended): The organic polymer light-emitting element material as claimed in claim 3 any one of claims 3 to 6, wherein the polymerizable functional group is an organic group having a carbon-carbon double bond.

19. (currently amended): An organic polymer light-emitting element comprising a pair of electrodes having interposed therebetween at least one layer comprising the organic polymer light-emitting element material described in <u>claim lany one of claims 1 to 18</u>.

20. (currently amended): An organic polymer light-emitting element comprising a pair of electrodes having interposed therebetween at least one layer each comprising one or more organic polymer light-emitting element material described in claim 1 any one of claims 1 to 18.

21. (new): The organic polymer light-emitting element material as claimed in claim 3, wherein the polymerizable gold complex has a structure represented by formula (7):

$$L^{1}-Au-\left(C \equiv C\right)_{n}Au-L^{2} \tag{7}$$

wherein L^1 and L^2 each represents a monodentate or bidentate ligand, at least one of L^1 and L^2 is the organic phosphine compound described in claim 8, and n represents an integer of 1 to 5